

AI-Accelerated App Modernization

The Crowdbotics platform supercharges app modernization projects using AI - converting your old code into business requirements and updated code

THERE'S A REASON THEY'RE CALLED LEGACY APPS

Legacy code bases stymie innovation and limit business opportunity by making it hard to launch new products, implement new business processes or react to changing market conditions. However, app modernization projects are the most challenging and riskiest projects IT is asked to tackle. The inherent costs and risks prevent these projects from moving forward, and too many organizations continue to be held back because of the limitations of their legacy code.

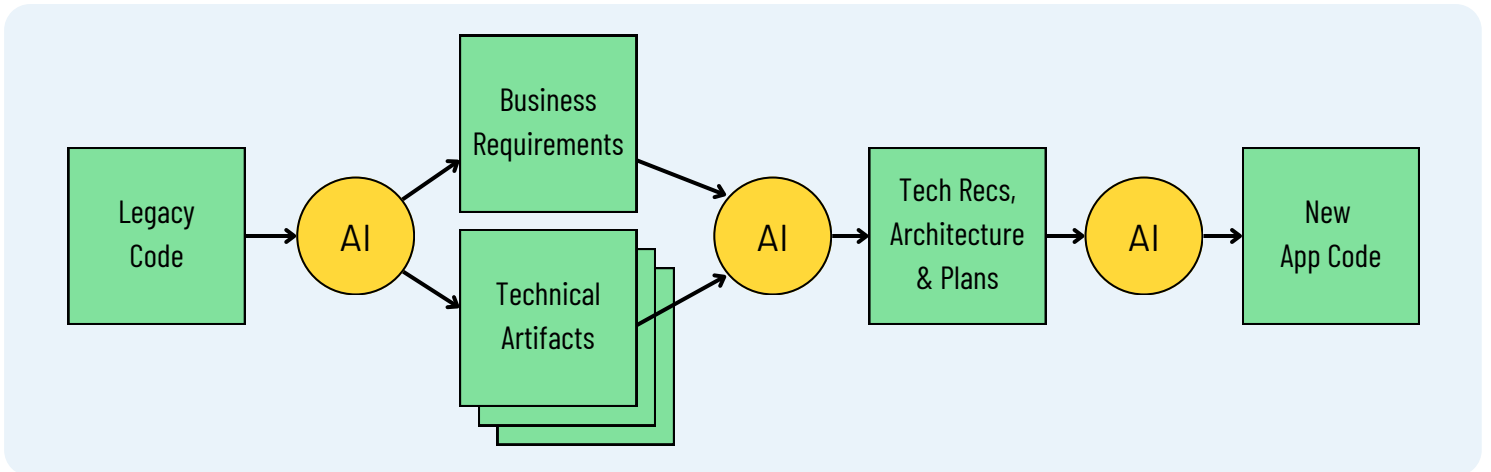
The good news is that advances in generative AI - when paired with new, innovative methodologies - have the potential to unlock these legacy modernization projects and create opportunity where there once was stagnation.

CROWDBOTICS CODE TO SPEC CHANGES THE GAME

While some companies are using AI to 'transpile' legacy code (i.e. convert from one language directly into another), this approach creates as many problems as it solves. More often than not, the lack of sufficient documentation means that a transpiler just turns one black box into a different black box.

The Crowdbotics approach uses AI to first translate the legacy code into highly detailed business requirements. At the same time, the Crowdbotics platform generates all of the necessary technical documentation. Using the newly generated business requirements and technical documentation, the Crowdbotics platform can now generate the new code for the updated application. And since the updated application is fully documented, making changes or adding new features is a snap.

HOW CROWDBOTICS CODE TO SPEC WORKS



The Crowdbotics platform utilizes an AI-driven pipeline to reverse engineer high-quality business requirements from legacy code bases. The platform also generates essential technical artifacts such as database schema, knowledge graphs and unified modeling language (UML) diagrams. This process can be run regardless of application size, programming language or platform. The Crowdbotics platform scales to millions of lines of code and works equally well with COBOL on a mainframe as with Java in a virtual machine.

Once the business requirements have been created and validated, along with the companion technical documentation, the platform again uses AI to generate technical and architectural recommendations for the new app's targeted cloud platform. Finally, using all the business requirements as context, the platform generates the code for the updated version of the app.

CROWDBOTICS CODE TO SPEC USE CASES

- **MODERNIZATION** - Most of the projects customers tackle with the Crowdbotics platform are classic app modernization projects: a strategic line of business app requires rewriting in a new language and framework in order to run on a new platform, typically in the cloud. Additionally, in the process of moving the app, new features and functionality are required. These are the most challenging projects, but also the projects that benefit the most from Crowdbotics' innovative AI-driven approach.
- **REPLATFORMING** - The app requires rewriting to run on a new platform - usually due to moving the app to a cloud platform such as Microsoft Azure. Initially, the features and functionality remain the same.
- **DETACHING** - Apps built in walled garden environments such as Lotus Notes or low-code platforms such as Outsystems can be nearly impossible to move to modern, scalable and open platforms. Crowdbotics Code to Spec makes these transformations a possibility.

The Crowdbotics platform - leveraging the power of AI - helps customers modernize their legacy apps more efficiently and with less risk. Significantly, Crowdbotics' unique approach makes it possible to continuously innovate and evolve the new apps with ease, unlocking the business's ability to introduce new business lines, adapt to competitive pressure and stay ahead of the curve.